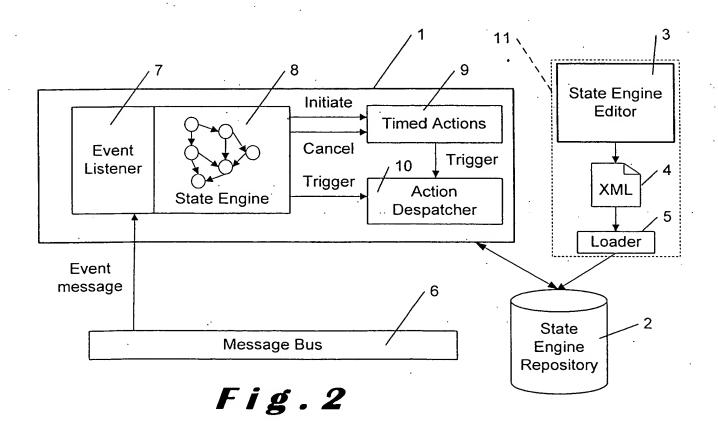
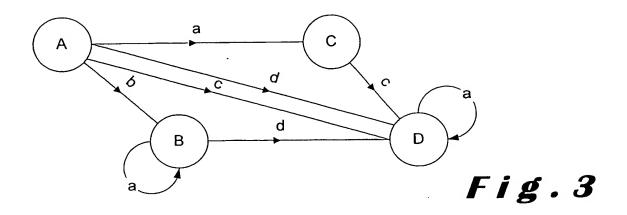


Fig. 1





Current State / Incoming Event	State A	State B	State C	State D
Event a	New Sate: State C Action 1 Action 2 Timed Action 1	Action 7 Timed Action 2		Action 1
Event b	New State: State B Action 3 Timed Action 2 Timed Action 3			
Event c	New State: State D Action 4 Action 5 Action 6		New State: State D Action 4 Action 5	
Event d	New State: State D Action 5	New State: State D Action 3 Action 5		

Fig. 4

1017 100 100 100 100 100 100 100 100 100	production of the contract of the second
	Global element for the business
	process state engine repository
	Definition of object types
	Unique Ref ID of the object type
	(system generated) Name of the object type
<pre><name>string</name> <description>string</description></pre>	
	bescription of the object type
<objecttype xid="string"></objecttype>	
	Definition of state diagrams
	Unique Ref ID of the diagram (system
3	generated)
	Name of the diagram
<pre><description>string</description></pre>	Description of the diagram
<pre><objecttyperef xid="string"></objecttyperef></pre>	Ref of the object type on which the
	diagram applies
<diagram xid="string"></diagram>	
<states></states>	
<state xid="string"></state>	Unique Ref ID of the state (system
	generated)
<pre><name>string</name></pre>	Name of the state
<pre><description>string</description></pre>	Description of the state
<diagramref xid="string"></diagramref>	Ref to the diagram to which the state belongs
	State Delongs
<state xid="string"></state>	
<events></events>	
<event xid="string"></event>	Unique Ref ID of the event (system generated)
<name>string</name>	Name of the event
<pre><description>string</description></pre>	Description of the event
<objecttyperef xid="string"></objecttyperef>	Object type on which event is applicable
	appricable
<pre><event xid="string"></event></pre>	

Fig.5a

(Actions>	
Action xid=string>	Unique Ref ID of the action (system generated)
<name>string</name>	Name of the action
<pre><description>string</description></pre> /Description>	Description of the action
<objecttyperef xid="string"></objecttyperef>	Object types on which action is applicable (optional)
<action xid="string"></action>	
<timedactions></timedactions>	
<timedaction xid="string"></timedaction>	Unique Ref ID of the timed action (system generated)
<name>string</name>	Name of the timedaction
<pre><description>string</description></pre>	Description of the timed action
<pre><objecttyperef xid="string"></objecttyperef></pre>	Object types on which timed action is applicable (optional)
<timeout>string</timeout>	Time when action(s) will fire (dd hh:mm)
<actions></actions>	Action(s) that will fire when timeout expires
<action xid="string"></action>	Ref to the action to be fired
<timedaction xid="string"></timedaction>	
<transitions></transitions>	·
<transition xid="string"></transition>	
<pre><triggeringevent xid="string"></triggeringevent></pre>	Ref to the event that triggers th transition
<diagram xid="string"></diagram>	Ref to the state digram to which transition belongs
<pre><source xid="string"/></pre>	Ref to the source state of the transition
<target xid="string"></target>	Ref to the target state of the transition
<actions></actions>	Ref to the actions to be taken wh transition occurs
<action xid≔string=""></action>	
<timedactions></timedactions>	Ref to timed actions to be schedu
<pre><timedaction xid="string"></timedaction></pre>	

Fig.5b

Element	Description
EventMessage>	Global element for the event
	message
<header></header>	Event header information
<origin>string</origin>	Origin (system that generated the message on the bus)
<pre><messagedatetime>string</messagedatetime></pre>	When the message was sent (DD-MM-YYY HH:MM:SS)
<eventtype>string</eventtype>	What type of event
<eventdatetime>string</eventdatetime>	When the orginal event was created (DD-MM-YYY HH:MM:SS)
<location>string</location>	Where the event was created
<user>string</user>	Who created the event
<reason>string</reason>	Why the event was created
<method>string</method>	How the event was created
<objecttype>string</objecttype>	Object type on which the event applies
<pre><objectid>string</objectid></pre>	
<object></object>	Specific Object data associated with the event - format specifito the object type
<objectdatal><objectdatal></objectdatal></objectdatal>	Object specific data
<objectdatan><objectdatan></objectdatan></objectdatan>	Object specific data

Fig.5c

<pre><actionmessage></actionmessage></pre>	Global element for the action
Actionnessages	message
<header></header>	Action header information
<origin>string</origin>	Origin (system that generated the message on the bus)
<pre><messagedatetime>string</messagedatetime></pre>	Time>When the message was sent (DD-MM-YYY HH:MM:SS)
<actiontype>string</actiontype>	What type of action
<reason>string</reason>	Why the action was triggered
<objecttype>string</objecttype>	Object type on which the action applies
<objectid>string</objectid>	Object ID on which the action applies
<object></object>	Specific Object data associated with the event - format specifi to the object type
<objectdatal><objectdatal></objectdatal></objectdatal>	Object specific data
,	
<objectdatan><objectdatan></objectdatan></objectdatan>	Object specific data

Fig.5d

	Entities>Object t	ypes	
Object types Events	Object Type Editor		
Actions Times Actions State Diagrams	Name Description		
<u>States</u>	New	<u>Delete</u>	
	Name	Description	
	Package Order CSTask	Package Shipping Order Customer Service Task	
	٠.		

Fig.6

Object types Events Actions Times Actions State Diagrams States	Entities>Events		
	Event Editor		
	Name Description Object type		
	New 25	<u>Supplate</u>	Delete:
	Name	Description	Object type
	Created CarrierIntransit CarrierPOD CPScanIn DeliveredUser	Package created Carrier in transit Carrier proof of delivery Scan in by CP Delivered to User	Package Package Package Package Package

Fig.7

Object types	Entities>Actions		
<u>rents</u> ctions		Action Editor	
mes Actions ate Diagrams ates	Name Description Object type		
	New	Update	Delete
	Name	Description	Object type
	LogEvent CarrierCollect NotifyUser	Log event Notify Carrier to collect Send message to recipient	Package Package

Fig.8

Object types	Entities>TimedActions			
<u>Events</u> Actions		Timed Action Editor		
Times Actions State Diagrams States	Name Description Object type			
, <u> </u>	Timer (dd hh:mm)			
	Generic Actions			
·	Object Specific Actions			
	New 7	<u>Update</u>	Delete, -	
	Name The De	escription	Object type	
	<u>DeliveryLate</u> De	elivery package uncollected elivery delayed eturn not collected by carrier	Package Package Package	

Fig.9

Object types	Entities>StateDia	agrams	
vents		State Diagram Edito	or
Actions Times Actions State Diagrams States	Name Description Object type		eren Ly.
	New New	<u>Update</u>	Delete 3
	Name	Description	Object type
	PkgDelivery PkgReturn PickProcess	Package Delivery flow Package return flow Package picking flow	Package Package Order

Fig. 10

bject types	Entities>States State Editor			
Events Actions				
Times Actions	Name			
State Diagrams States	Description			
States	State Diagram			
	New	Update:	Delete	
	Name	Description	State Diagram	
	Created	Package created	PkgDelivery	
	<u>InTransit</u>	Package in transit	PkgDelivery	
	DeliveredCP	Package delivered in CP	PkgDelivery	
	<u>DeliveredUser</u>	Package delivered to user	PkgDelivery	

Fig. 11

ntities Diagra	Diagrams>PkgDelivery>Created		
kgReturn	Transition Editor		
<u>lickProcess</u>	Triggering Event Target State Generic Actions		
Source State			
lone Created nTransit	Object Specific Actions		
<u>DeliveredCP</u> <u>DeliveredUser</u>	Generic Timed Actions		
•	Object Specific Timed Actions		
	New New	pdate Delete:	
	Triggering Event	Target State	
	Created CarrierIntransit CarrierPOD CPScanIn DeliveredUser	Created InTransit DeliveredCP DeliveredCP DeliveredUser	

Fig. 12

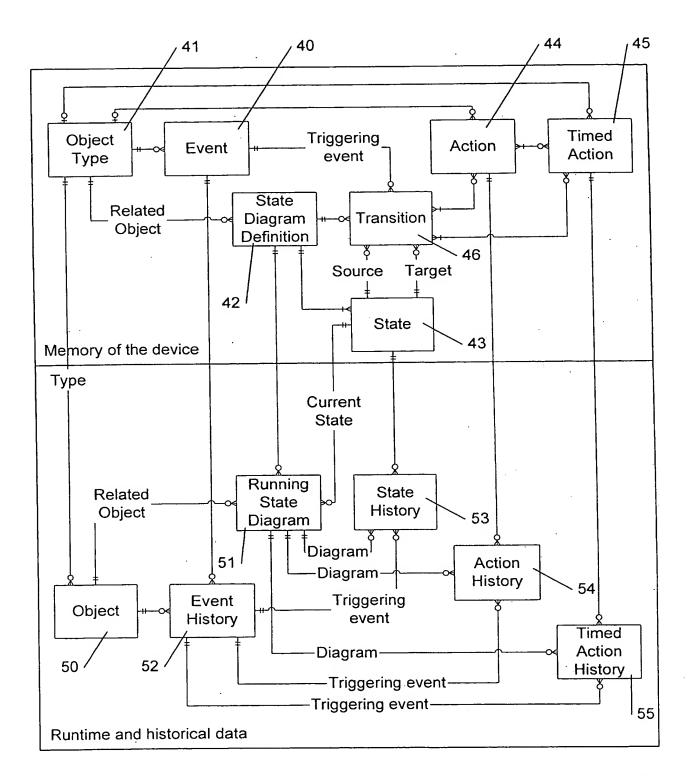


Fig. 13

End

Fig. 14